

ABSTRACT

~~The projector 1 comprises~~A projector includes a light source ~~device 411, source,~~ a color separating optical ~~system 42, system,~~ liquid crystal ~~panels 441, 441R, 441G and 441B,~~ panels, a cross dichroic ~~prism 444, prism,~~ and a projection ~~lens 46, lens,~~ in which an optical ~~filter 500-filter~~ is disposed ~~for reflecting~~to reflect a predetermined spectral component in the light flux between a dichroic ~~mirror 421-mirror~~ and a dichroic ~~mirror 422-mirror~~ where an angle by which the light flux expands falls within 20° with respect to an illumination optical axis L of the light flux on an optical path from the light source ~~device 411-device~~ to a light flux-emitting surface of the projecting ~~lens 46-lens.~~ Thus, carrying out spectrum correction can reduce or prevent the contrast degradation of the projected image. Furthermore, it allows the difference of an incident angle to the light flux-incident surface of the light flux to be smaller, thereby reducing color unevenness.